



■ 2011

BASIC  
VERTIKAL  
SOBRA  
Accessories  
Glass  
CAPPUCCIO

# Round Downlights



### Standard Downlights

To meet various design requirements, three different luminaire conclusions are available for recessed downlights. These are based on a particularly narrow standard ring with a recessed reflector. The folded over reflector has a returned edge that covers the narrow mounting ring, thereby forming a design feature. A Changing ring system consisting of an easy-to assemble base ring can be adapted to many different multifunctional accessories.





**CAPPUCCIO** ▶ P. 141  
Decorative ancillary glasses for the downlight series BASIC, VERTIKAL and SOBRA. Mounted on an changing cover ring with 3-point fastening. The glasses are completely or partially frosted. These optical light accessories discreetly brighten the ceiling and give a precise glare reduction. Easy cleaning and maintenance is possible because the cover ring can be removed tool-free.



CROSS

P. 190



HAYD

P. 180



KONUS

P. 178



NORTON

P. 174



Wallwasher

P. 172

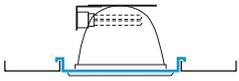


DIFFUS

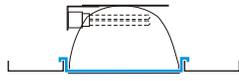
P. 182

# Round Downlights

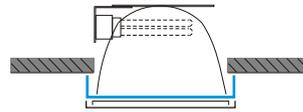
Modular plate for panel ceilings



Added-on modular plate



Cylinder for semi-recessed mounting

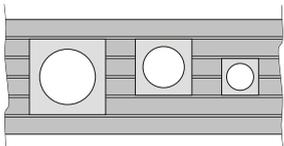
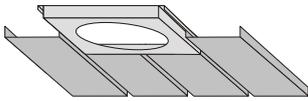


Before ordering please consult us for technical details.

Semi-recessed mounting is only possible with a cover ring.  
Changing ring system ▶ P. 138

## Modular Panels

The integration of recessed luminaires into panel ceilings M100 is made possible with modular panels. (Other ceiling systems available on request.) The modular panels are mounted into the ceiling construction tool-free. The downlight is subsequently mounted into the ceiling section. When using the added-on modular panels the luminaire ring is replaced by this modular panel. The luminaire cover ring is therefore made redundant.



4-Field 3-Field 2-Field

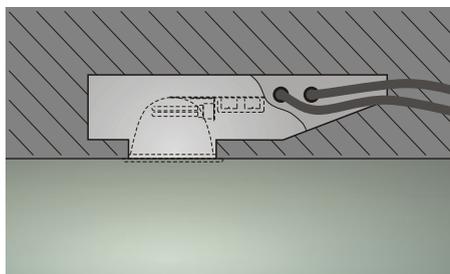
## Semi-Recessing Cylinder

Reduction of recessing height due to semi-recessing cylinder up to 40mm possible. Project related supply of appropriate tilting adaptors for recessed luminaires in slant ceilings is possible.

		Article No. Version		Ring size						
				Ø 125mm	Ø 140mm	Ø 165mm	Ø 190mm	Ø 220mm	Ø 255mm	Ø 315mm
	Positioning tracks in pairs to strengthen ceiling panels	0805.165	CCO 145		●					
		0805.190	CCO 165			●				
		0805.220	CCO 195					●		
		0805.255	CCO 235						●	
		0805.315	CCO 300							●
	Cut-in ring	0895.190	CCO 165			●				
		0895.220	CCO 195					●		
		0895.255	CCO 235						●	
		0895.315	CCO 300							●
	Modular panel for ceiling system panel 85/15	0801.125	2-Field CCO 105	●						
		0801.140	2-Field CCO 120		●					
		0801.165	2-Field CCO 145			●				
		0801.190	3-Field CCO 165				●			
		0801.220	3-Field CCO 195					●		
		0801.255	3-Field CCO 235						●	
0801.315	4-Field CCO 300							●		
	Cylinder for semi-recessed mounting	0800.190	CCO 165			●				
		0800.225	CCO 195					●		
		0800.255	CCO 235						●	

### Concrete Housing

The use of concrete housings allows recessed-mounted luminaires to be harmoniously integrated into the ceiling. Special adaptations also enable specific stress requirements to be met. This includes extended concrete runs up to a maximum of 35mm in order to guide the armouring underneath the fitting. Flat or round fittings (with highly reduced volume) are available, depending on the ceiling situation. If round concrete castings are being used, only specially adapted downlights, allowing the installation of the electronic component groups on top.



### Specification

Sturdy one-piece housing made of galvanized sheet-steel with a slanted concrete run. 2 to 4 entries for conduit. Attached throat can be extended as required. Maximum height 35mm. Fixing tabs for nail-fastening to the wooden formwork. When installing in bare concrete ceilings, fixing with internal centring discs must be provided. Please order separately.



### Concrete Housing, Flat

Article No. 0898.xxxx (whereby xxxx = luminaire Article no.)  
Can be used for standard downlights with a horizontal lamp position. Suitable for concrete ceilings and, where centring plates are used, suitable for fairfaced concrete ceilings.

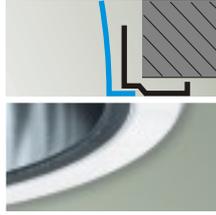


### Concrete Housing, High

Article No. 0899.xxxx (whereby xxxx = luminaire Article no.)  
Can be used for standard downlights with a vertical lamp position and downlights with top mounted control gear. Suitable for concrete ceilings and, where centring plates are used, also suitable for fairfaced concrete ceilings.

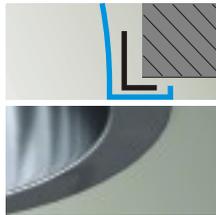
# Round Downlights

## Downlight Luminaire Conclusions



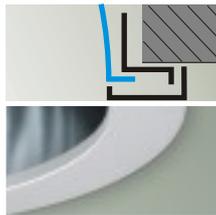
### Standard

Narrow luminaire conclusion ring in one piece. Discreetly recessed reflector rim.



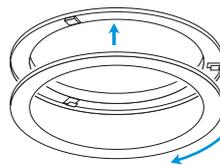
### Folded-over Reflector

Concealed luminaire conclusion ring (by the reflector rim) and therefore invisible.



### Changing Cover Ring

Changing ring system in 2 parts where the luminaire is supplied with a fixed ring. One separate cover ring (to be ordered separately) which is fastened by a bayonet lock. Suitable for subsequent mounting of optical accessories. Available for ring sizes 125, 140, 190, 220 and 255mm. Other sizes available on request.



To order the Changing ring system please add "CR" to the order code.

► The optional cover ring is not normally included, please order separately.

The covering ring can be mounted separately tool-free afterwards. This allows the mounting of luminaires at an early stage of site work.

## Downlight Colour Codes

- .-10 Brass
- .-11 Chrome
- .-20 made to RAL
- .-23 Silver C3
- .-26 RAL 9006
- .-31 White
- .-32 Matt white



**CR for Glass Panes**

Changing ring for insertion of glass panes as IP protection, decorative or diffuser glass. Can also be used with CAPPUCCIO ancillary glass.

**Various Covers for Various Tasks**

Insertion panes made of diverse materials in various finishes. Whether satinized or opal for spreading light, an even and soft light is always given. Also in glass or acrylic version for protection. All insertion panes offer protection against splashing water, thereby attaining protection class IP43 from the underside when mounted into a closed ceiling system. Also suitable as theft and vandalism protection.

► To specify the luminaire size, replace the placeholders .xxx with the ring size.

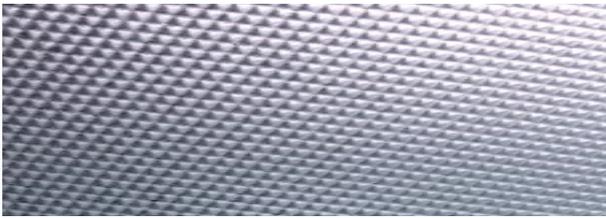
**Ordering example:**

Changing ring for open downlight with frame size of 220 would be:  
Article No.: 0100.220.12



		Article No.		Version		Version			
						Brass	Chrome	White	Made to RAL
	Changing ring for open downlight	0100.xxx-.12	Standard	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
	CR for open downlight with CAPPUCCIO glass accessories	0100.xxx-.13	Glass fixing bolt, chrome	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
		0100.xxx-.14	Glass fixing bolt, brass	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
		0100.xxx-.15	Glass fixing bolt, lacquered	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		

# Round Downlights – Glasses



Detail of prismatic surface

All glass inserts provide splash water protection. Luminaires with permanently glued-in glass covers attain protection mode IP43 (from below) when installed in closed ceiling systems.

Microstructure-prismatic lens. This product's features are: high lighting efficiency, softly starting glare control simultaneously combined with an opal lens.

► To specify the luminaire size, replace the placeholders .xxx with the ring size.

**Ordering example:**  
Changing ring with IP43 protection pane with ring size of 220 would be:  
Article No.: 0128.220.20

		Article No.	Version	Version			
				Brass	Chrome	White	Made to RAL
	CR with IP43 circular prism	0128.xxx-20	Acrylic, clear	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
	CR with IP43 prismatic lens	0130.xxx-20	Glass, clear	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
		0131.xxx-20	Acrylic, clear	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
		0132.xxx-20	Glass, satin-frosted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>



**CAPPUCCIO**

The supplied standard version is the decorative glass CAPPUCCIO as float glass. For other versions, please inquire separately.

► See chart

Changing ring for open downlights with glass retention pins combined with glass type 2 decorative glass cover, partially-frosted.

		Article No. Version		Version						
				Hardened security glass	Float glass	Acrylic glass			Glass, satin-frosted	Glass, partially-frosted
		4600.125	Decorative glass Ø 135mm	○	●	○				●
		4600.140	Decorative glass Ø 150mm	○	●	○				●
		4600.165	Decorative glass Ø 180mm	○	●	○				●
		4600.190	Decorative glass Ø 200mm	○	●	○				●
		4600.220	Decorative glass Ø 240mm	○	●	○				●
		4600.255	Decorative glass Ø 280mm	○	●	○				●
		4620.125	Decorative glass Ø 140mm	○	●	○				●
		4620.140	Decorative glass Ø 160mm	○	●	○				●
		4620.165	Decorative glass Ø 190mm	○	●	○				●
		4620.190	Decorative glass Ø 220mm	○	●	○				●
		4620.220	Decorative glass Ø 250mm	○	●	○				●
		4620.255	Decorative glass Ø 280mm	○	●	○				●
		4680.165	Decorative glass Ø 180mm	○	●	○				●
		4680.190	Decorative glass Ø 200mm	○	●	○				●
		4680.220	Decorative glass Ø 240mm	○	●	○				●
		4680.255	Decorative glass Ø 280mm	○	●	○				●
		4680.315	Decorative glass Ø 340mm	○	●	○				●
		4612.165	Decorative glass Ø 180mm	○	●	○				●
		4612.190	Decorative glass Ø 200mm	○	●	○				●
		4612.220	Decorative glass Ø 240mm	○	●	○				●
		4612.255	Decorative glass Ø 280mm	○	●	○				●
		4612.315	Decorative glass Ø 340mm	○	●	○				●

# Round Downlights – Glasses



Changing ring, IP43 protection pane in acrylic:  
opal satin-matt / frosted glass / clear glass

► To specify the luminaire size, replace the placeholders .xxx with the ring size.

### Ordering example:

Changing ring with IP43 protection pane with ring size of 220 would be:  
Article No.: 0110.220.20

				Version			
Image	Description	Article No.	Version	Brass	Chrome	White	Made to RAL
	CR with IP43 protection pane, clear	0110.xxx-20	Acrylic, clear	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
		0111.xxx-20	Float glass, clear	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
		0112.xxx-20	Hardened security glass, clear	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
	CR with IP43 protection pane, satin-frosted	0115.xxx-20	Float glass, satin-frosted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
		0116.xxx-20	Hardened security glass, satin-frosted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
	CR with IP43 protection pane, acrylic	0127.xxx-20	Acrylic opal	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>



All glass inserts provide splash water protection. Luminaires with permanently glued-in glass covers attain protection mode IP43 (from below) when installed in closed ceiling systems.

► To specify the luminaire size, replace the placeholders .xxx with the ring size.

**Ordering example:**

Changing ring with IP43 protection pane with ring size of 220 would be:  
Article No.: 0117.220.20

		Article No.		Version		Version			
						Brass	Chrome	White	Made to RAL
	CR with protection pane, IP43 clear partially-frosted in centre	0117.xxx-20	Float glass, partially-frosted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
		0118.xxx-20	Hardened security glass, partially-frosted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
	CR with protection pane, IP43 clear partially-frosted at edge	0120.xxx-20	Float glass, partially-frosted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
		0121.xxx-20	Hardened security glass, partially-frosted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
	CR with protection pane, IP43 satin-frosted, additionally satinized in centre	0123.xxx-20	Float glass, frosted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
		0124.xxx-20	Hardened security glass, frosted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		

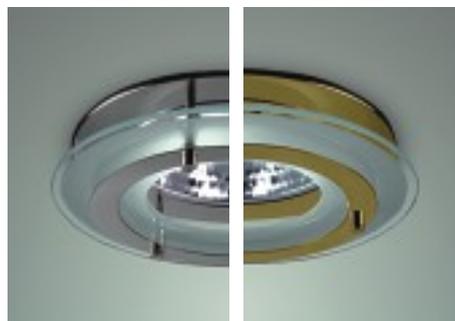
# Round Downlights – Glasses



## CAPPUCCIO

The supplied standard version is the decorative glass CAPPUCCIO as float glass. For versions in hardened security glass, acrylic glass and borosilicate glass, please inquire separately.

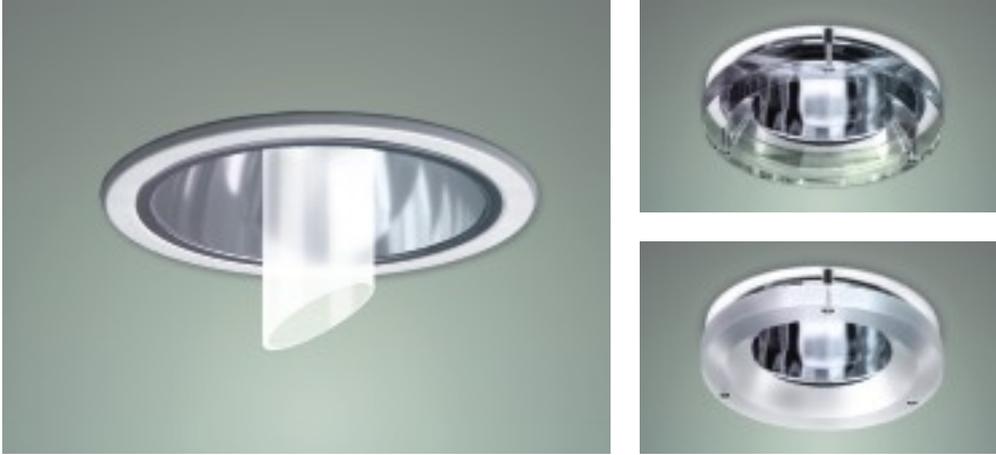
Article No. Version		Version					
		Hardened security glass	Float glass	Acrylic glass	Borosilicate glass	Glass, satin-frosted	Glass, partially-frosted
	4610.125 Decorative glass Ø 140mm	○	●	○	○		●
	4610.140 Decorative glass Ø 170mm	○	●	○	○		●
	4610.165 Decorative glass Ø 215mm	○	●	○	○		●
	4610.190 Decorative glass Ø 240mm	○	●	○	○		●
	4610.220 Decorative glass Ø 270mm	○	●	○	○		●
	4610.255 Decorative glass Ø 320mm	○	●	○	○		●
4610.315 Decorative glass Ø 380mm	○	●	○	○		●	
	4618.165 Decorative glass Ø 180mm	○	●	○	○		●
	4618.190 Decorative glass Ø 200mm	○	●	○	○		●
	4618.220 Decorative glass Ø 240mm	○	●	○	○		●
	4618.255 Decorative glass Ø 280mm	○	●	○	○		●
	4618.315 Decorative glass Ø 340mm	○	●	○	○		●
	4615.165 Decorative glass Ø 180mm	○	●	○	○		●
	4615.190 Decorative glass Ø 200mm	○	●	○	○		●
	4615.220 Decorative glass Ø 240mm	○	●	○	○		●
	4615.255 Decorative glass Ø 280mm	○	●	○	○		●
	4615.315 Decorative glass Ø 340mm	○	●	○	○		●



Specially designed for the requirements of hotels and restaurants. Effective and functional, with high-quality materials for use in interior design.

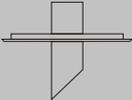
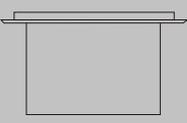
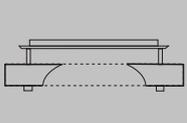
		Article No.	Version	Version						
				Hardened security glass	Float glass	Acrylic glass	Glass, satin-frosted	Glass, partially-frosted	Brass	Chrome
 		4675.190	Decorative glass Ø 190mm	○	●	○		●	○	●
		4675.220	Decorative glass Ø 220mm	○	●	○		●	○	●
		4675.255	Decorative glass Ø 255mm	○	●	○		●	○	●
 		4691.190	Decorative glass Ø 200mm	○	●	○		●	○	●
		4691.220	Decorative glass Ø 240mm	○	●	○		●	○	●
		4691.255	Decorative glass Ø 280mm	○	●	○		●	○	●
		4691.315	Decorative glass Ø 340mm	○	●	○		●	○	●
 		4690.190	Decorative glass Ø 240mm	○	●	○		●	○	●
		4690.220	Decorative glass Ø 270mm	○	●	○		●	○	●
		4690.255	Decorative glass Ø 340mm	○	●	○		●	○	●

# Round Downlights – Glasses



Decorative and technical accessories fitting inside the reflector opening. Removable for lamp change and cleaning. Combinations of CAPPUCCIO decorative accessories and inserted in accessories are possible. Of course special solutions can also be realized.

► To specify decorative glass cylinders, replace the placeholders .xxxx with the luminaire's Article no.

		Version					
Article No.	Version	Float glass	Acrylic glass	Borosilicate glass		Glass clear	Glass frosted
 	0865.xxxx	Decorative glass cylinder, clear	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		<input checked="" type="radio"/>
	0866.xxxx	Decorative glass cylinder	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		<input checked="" type="radio"/>
 	4660.xxxx	Decorative glass cylinder	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		<input checked="" type="radio"/>
	4665.xxxx	Decorative glass cylinder, clear	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		<input checked="" type="radio"/>
 	4670.190	Circular prism Ø 200mm, clear		<input checked="" type="radio"/>			<input checked="" type="radio"/>
	4670.220	Circular prism Ø 230mm, clear		<input checked="" type="radio"/>			<input checked="" type="radio"/>



These accessories are not only used for glare control, but also as a decorative element. Since they are mounted centrally, they can also be retro-fitted in existing installations.

► To specify decorative glass cylinders, replace the placeholders .xxxx with the luminaire's Article no.

		Article No.		Version	Version							
					Float glass	Acrylic glass	Borosilicate glass			Glass, satin-frosted	Glass, partially-frosted	
		4650.190	Decorative glass Ø 120mm		●	○	○			●	○	
		4650.220	Decorative glass Ø 150mm		●	○	○			●	○	
		4650.255	Decorative glass Ø 190mm		●	○	○			●	○	
		4650.315	Decorative glass Ø 240mm		●	○	○			●	○	
		0824.190	Ring louvre silver									
		0824.220	Ring louvre silver									
		0824.255	Ring louvre silver									
		0825.190	Ring louvre white									
		0825.220	Ring louvre white									
		0825.255	Ring louvre white									



Gold



High specular



Satinized rim



Semi-specular



Faceted rim



White



### BASIC Luminaire System

Downlights for compact fluorescent lamps in a horizontal burning position. Small luminaire with large lumen package and precise glare reduction. Available in four diameters and up to three different built-in depths each giving the same optical appearance even with variable ceiling mounting situations. Only electronic control gears are used, either non-dimmable or dimmable 1-10V / DALI / Push. Also suitable as emergency lighting which can be supplied with individual batteries.

### Lighting Technology

Only polished and piece anodized aluminium reflectors with a smooth silver and high polish surface are used. Other reflector surfaces are available. Luminaire conclusions are available in three different versions. Special designs for particular project solutions can be realized at short notice taking specific requirements into consideration. The luminaire body with control gears mounted along-side results in a particularly low built-in depth. Also available in a light leak-proof version.

A wide range of efficiencies, sizes and lighting technology optimizes the project options. The luminaire program is rounded off by various technical and decorative accessories.

Lamp version TC-De / Te	OD Ø (mm)	Built-in depth (mm)								
		65	85	105	120	135	140	150	160	170
1x 10/13W	165			●						
1x 18W				●						
1x 26W				●						
1x 10/13W	190				●	●				
1x 18W			●	●	●	●				
1x 26/32W			●	●	●	●				
1x 42W				●	●					
2x 18W			●	●	●					
1x 18W	220	●	●		●			●		
1x 26/32W			●		●			●		
1x 42W			●		●					
2x 18W		●	●		●			●		
2x 26W		●						●		
2x 26/32W			●		●					
1x 18W	255		●		●		●		●	●
1x 26/32W			●		●		●		●	●
1x 42W			●		●		●			●
2x 18W			●		●		●		●	●
2x 26/32W			●		●		●		●	●
2x 42W			●		●		●			
			●		●		●			



## BASIC 165 / 190

Recessed downlight BASIC.  
For TC-De 26W or TC-Te 32W compact fluorescent lamps either 1-flame or 2-flame in horizontal burning position, mainly with MultiPower electronic control gear. This allows an alternative use of 26W or 32W lamps. Prewired and ready for installation with heat resistant cable and terminal block, 3-pole (5-pole), for through wiring with twin strain relief.

			<b>TC-De</b> 	10-13W GX24q-1	18W GX24q-2		
			<b>TC-Te</b> 	13W GX24q-1	18W GX24q-2	26/32W GX24q-3	42W GX24q-4

		Article No.	ECG	Lamp version
	4400.113	.-02	1 x TC-De/Te	10/13W
	4400.118	.-02	1 x TC-Te	18W
	4400.126	.-02	1 x TC-Te	26W

Version					
Reflector, matt silver					
Reflector, high polish silver	●	○	○		
Reflector, high polish gold	●	○	○		
Reflector, special white	●	○	○		
Reflector, satinized rim					
Reflector, faceted					

### Reflector Technology

Polished and piece anodized reflector made of aluminium 99.98% with smooth, high polish silver surface. Other reflector surfaces are available.

► See chart

### Changing Ring System

Luminaire conclusion either with white standard ring or fixed ring for 2-piece Changing ring system (order code = add on CR). This allows the subsequent mounting of optical accessories.

							Version					
							Reflector, matt silver	Reflector, high polish silver	Reflector, high polish gold	Reflector, special white	Reflector, satinated rim	Reflector, faceted
		Ring Size	BIH	CCO	Article No.	ECG	Lamp version					
		190mm	120mm	165mm	4404.118	.-02	1 x TC-De/Te 18W	●	○	○	○	○
					4404.218	.-02	2 x TC-De 18W	●	○	○	○	○
					4404.132	.-02	1 x TC-Te 26/32W	●	○	○	○	○
					4404.142	.-02	1 x TC-Te 42W	●	○	○	○	○
		190mm	135mm	165mm	4405.113	.-02	1 x TC-Te 13W	●	○	○		
					4405.118	.-02	1 x TC-Te 18W	●	○	○		
					4405.132	.-02	1 x TC-Te 26/32W	●	○	○		
		190mm	120mm	165mm	4406.113	.-02	1 x TC-Te 13W	●	○	○		
					4406.118	.-02	1 x TC-Te 18W	●	○	○		
					4406.132	.-02	1 x TC-Te 26/32W	●	○	○		
		190mm	105mm	165mm	4408.118	.-02	1 x TC-De/Te 18W	●	○	○	○	
					4408.218	.-02	2 x TC-De/Te 18W	●	○	○	○	
					4408.132	.-02	1 x TC-Te 26/32W	●	○	○	○	
					4408.142	.-02	1 x TC-Te 42W	●	○	○	○	
		190mm	85mm	165mm	4410.118	.-02	1 x TC-De/Te 18W	●	○	○	○	
					4410.218	.-02	2 x TC-De/Te 18W	●	○	○	○	
					4410.132	.-02	1 x TC-Te 26/32W	●	○	○	○	



## BASIC 220

Recessed downlight BASIC.  
For TC-De 26W or TC-Te 32W compact fluorescent lamps either 1-flame or 2-flame in horizontal burning position, mainly with MultiPower electronic control gear. This allows an alternative use of 26W or 32W lamps. Prewired ready-to-connect with heat resistant cable and terminal block, 3-pole (5-pole), for through-wiring with twin strain relief.



		Article No.	ECG	Lamp version	
	4420.118	.-02	1 x TC-De	18W	
	4420.218	.-02	2 x TC-De	18W	
	4420.226	.-02	2 x TC-Te	26W	
	4420.132	.-02	1 x TC-Te	26/32W	

Version						
Reflector, matt silver						
Reflector, high polish silver	●	○	○	○	○	
Reflector, high polish gold	●	○	○	○	○	
Reflector, special white	●	○	○	○	○	
Reflector, satinized rim	●	○	○	○	○	
Reflector, faceted rim	●	○	○	○	○	
Reflector, faceted	●	○	○	○	○	

### Reflector Technology

Polished and piece anodized reflector made of aluminium 99.98% with smooth, high polish silver surface. Other reflector surfaces are available.

► See chart

### Changing Ring System

Luminaire conclusion either with white standard ring or fixed ring for 2-piece Changing ring system (order code = add on CR). This allows the subsequent mounting of optical accessories.

Icons: I, 230 VOLT, 0,5 m, TC-De (18W G24q-2, 26W G24q-3), TC-Te (18W GX24q-2, 26/32W GX24q-3, 42W GX24q-4)

						Version						
						Reflector, matt silver	Reflector, high polish silver	Reflector, high polish gold	Reflector, special white	Reflector, satinized rim	Reflector, faceted rim	Reflector, faceted
Article No. ECG Lamp version												
	Ring Size	BIH	CCO	Article No.	ECG	Lamp version						
	220mm	120mm	195mm	4428.118	-.02	1 x TC-De/Te 18W	●	○	○			○
				4428.218	-.02	2 x TC-De/Te 18W	●	○	○			○
				4428.132	-.02	1 x TC-Te 26/32W	●	○	○			○
				4428.232	-.02	2 x TC-Te 26/32W	●	○	○			○
			4428.142	-.02	1 x TC-Te 42W	●	○	○			○	
	Ring Size	BIH	CCO	Article No.	ECG	Lamp version						
	220mm	85mm	195mm	4429.118	-.02	1 x TC-De/Te 18W	●	○	○			○
				4429.218	-.02	2 x TC-De/Te 18W	●	○	○			○
				4429.132	-.02	1 x TC-Te 26/32W	●	○	○			○
			4429.232	-.02	2 x TC-Te 26/32W	●	○	○			○	
	Ring Size	BIH	CCO	Article No.	ECG	Lamp version						
	220mm	65mm	195mm	4427.118	-.02	1 x TC-De 18W	●	○	○			
				4427.218	-.02	2 x TC-De 18W	●	○	○			
			4427.226	-.02	2 x TC-De 26W	●	○	○				



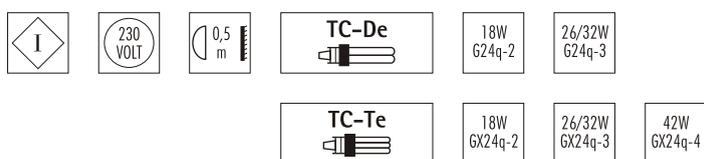
### Reflector Technology

Polished and piece anodized reflector made of aluminium 99.98% with smooth, high polish silver surface. Other reflector surfaces are available.

► See chart

### Changing Ring System

Luminaire conclusion either with white standard ring or fixed ring for 2-piece Changing ring system (order code = add on CR). This allows the subsequent mounting of optical accessories.



						Version						
						Reflector, high polish silver	Reflector, high polish gold	Reflector, special white	Reflector, satinized rim	Reflector, faceted rim	Reflector, faceted	Reflector, stripped rim
Article No. ECG Lamp version												
	Ring Size	BIH	CCO	4441.118	-.02	1 x TC-De	18W	●	○	○	○	○
	255mm	140mm	235mm	4441.218	-.02	2 x TC-De	18W	●	○	○	○	○
				4441.132	-.02	1 x TC-De/Te	26/32W	●	○	○	○	○
				4441.232	-.02	2 x TC-De/Te	26/32W	●	○	○	○	○
				4441.142	-.02	1 x TC-Te	42W	●	○	○	○	○
				4441.242	-.02	2 x TC-Te	42W	●	○	○	○	○
	Ring Size	BIH	CCO	4442.118	-.02	1 x TC-De	18W	●	○	○	○	○
	255mm	120mm	235mm	4442.218	-.02	2 x TC-De	18W	●	○	○	○	○
				4442.132	-.02	1 x TC-De/Te	26/32W	●	○	○	○	○
				4442.232	-.02	2 x TC-De/Te	26/32W	●	○	○	○	○
				4442.142	-.02	1 x TC-Te	42W	●	○	○	○	○
				4442.242	-.02	2 x TC-Te	42W	●	○	○	○	○
	Ring Size	BIH	CCO	4443.118	-.02	1 x TC-De	18W	●	○	○	○	○
	255mm	85mm	235mm	4443.218	-.02	2 x TC-De	18W	●	○	○	○	○
				4443.132	-.02	1 x TC-De/Te	26/32W	●	○	○	○	○
				4443.232	-.02	2 x TC-De/Te	26/32W	●	○	○	○	○
				4443.142	-.02	1 x TC-Te	42W	●	○	○	○	○
				4443.242	-.02	2 x TC-Te	42W	●	○	○	○	○

# VERTIKAL



## VERTIKAL

The vertical burning position allows the utilization of recessed downlights with smaller diameters. The central light spot allows a higher self-luminous intensity as per luminaires for lamps in horizontal burning position. The smaller ceiling cut-out implies a deeper built-in height.

### Reflector Technology

Polished and piece anodized reflector made of aluminium 99.98% with smooth, high polish silver surface. Other reflector surfaces are available. [▶ See chart](#)

### Changing Ring System

Luminaire conclusion either with white standard ring or fixed ring for 2-piece Changing ring system (order code = add on CR). This allows the subsequent mounting of optical accessories.



Gold



High specular



Satinized rim



Semi-specular



Faceted rim

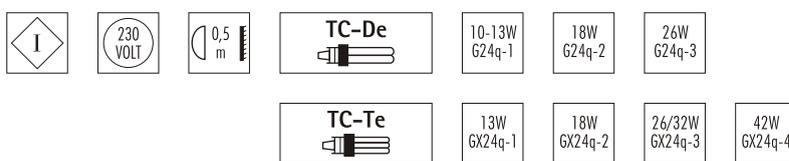


White

Lamp version	OD∅ (mm)	Built-in depth (mm)								
		145	170	190	205	215	220	235	250	255
TC-De / Te	125	●								
1x 10W			●							
1x 10/13W				●						
1x 18W	140			●	●					
1x 10/13W					●					
1x 18W					●					
1x 10/13W	165				●					
2x 13W					●					
1x 18W					●					
2x 18W					●					
1x 26/32W					●					
1x 10/13W	190			●			●			
1x 18W				●			●			
1x 26W							●			
2x 26W							●			
1x 26/32W				●			●			
1x 26-42W							●			
1x 10/13W		220					●			
1x 18W						●		●	●	
1x 26W									●	
2x 26W									●	
1x 26-42W						●		●	●	●
1x 57W										●



		Article No. ECG		Lamp version		Version								
	Ring Size 125mm BIH 145mm CCO 105mm	4500.110	.-02	1 x TC-De	10W									
	Ring Size 125mm BIH 170mm CCO 105mm	4501.113	.-02	1 x TC-De	10/13W	●								
		4501.118	.-02	1 x TC-Te	18W	●								
	Ring Size 140mm BIH 205mm CCO 120mm	4502.113	.-02	1 x TC-De	10/13W							●		
		4502.118	.-02	1 x TC-De	18W								●	



		Article No.		ECG	Lamp version	Version					
						Reflector, matt silver	Reflector, high polish silver	Reflector, high polish gold	Reflector, special white	Reflector, satinized rim	Reflector, faceted
	Ring Size 165mm BIH 205mm CCO 145mm	4505.113	.-02	1 x TC-De	10/13W	●	○	○	○		
		4505.213	.-02	2 x TC-De	13W	●	○	○	○		
		4505.118	.-02	1 x TC-De	18W	●	○	○	○		
		4505.218	.-02	2 x TC-De	18W	●	○	○	○		
	Ring Size 165mm BIH 205mm CCO 145mm	4506.113	.-02	1 x TC-Te	13W	●	○	○			
		4506.118	.-02	1 x TC-Te	18W	●	○	○			
		4506.132	.-02	1 x TC-Te	26/32W	●	○	○			
	Ring Size 190mm BIH 220mm CCO 165mm	4510.113	.-02	1 x TC-De	13W	●	○	○	○		
		4510.118	.-02	1 x TC-De	18W	●	○	○	○		
		4510.126	.-02	1 x TC-De	26W	●	○	○	○		
		4510.132	.-02	1 x TC-Te	26/32W	●	○	○	○		
	Ring Size 190mm BIH 220mm CCO 165mm	4511.118	.-02	1 x TC-De	18W	●	○	○		○	
		4511.126	.-02	1 x TC-De	26W	●	○	○		○	
		4511.226	.-02	2 x TC-De	26W	●	○	○		○	
		4511.142	.-02	1 x TC-Te	26-42W	●	○	○		○	
	Ring Size 190mm BIH 190mm CCO 165mm	4514.113	.-02	1 x TC-Te	13W	●	○	○	○	○	
		4514.118	.-02	1 x TC-Te	18W	●	○	○	○	○	
		4514.132	.-02	1 x TC-Te	26/32W	●	○	○	○	○	

			<b>TC-De</b> 	18W GX24q-2	26W GX24q-3			
			<b>TC-Te</b> 	13W GX24q-1	18W GX24q-2	26/32W GX24q-3	42W GX24q-4	57W GX24q-5

		Article No. ECG		Lamp version		Version								
				4515.118	-.02	1 x TC-De	18W	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4515.126	-.02	1 x TC-De	26W	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4515.226	-.02	2 x TC-De	26W	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4515.142	-.02	1 x TC-Te	26-42W	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4516.118	-.02	1 x TC-De	18W	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
				4516.218	-.02	2 x TC-De	18W	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
				4516.126	-.02	1 x TC-De	26W	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
				4516.226	-.02	2 x TC-De	26W	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
				4516.142	-.02	1 x TC-Te	26-42W	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
				4519.113	-.02	1 x TC-Te	13W	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
				4519.118	-.02	1 x TC-Te	18W	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
				4519.142	-.02	1 x TC-Te	26-42W	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
				4520.118	-.02	1 x TC-Te	18W	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
				4520.142	-.02	1 x TC-Te	26-42W	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
				4521.142	-.02	1 x TC-Te	26-42W	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
				4521.157	-.02	1 x TC-Te	57W	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

# SOBRA



## SOBRA

Optimized light solutions for every lighting purpose. Fascinating scenic light with high or partially increased light intensity. Visualization through deliberate glare effects and bright surfaces. Or completely invisible, integrated into the architecture through glare-free reflectors and additional cones. Luminaires are equipped with standard ring. Alternatively can be used with the Changing ring system (when ordering add "CR"), allowing the majority of the optical lighting accessories to be fitted.



Gold



High specular



Satinized rim



Semi-specular



Faceted rim

**SOBRA**

This product group covers downlights for general service lamps and high-pressure discharge lamps. Ceramic discharge tubes (CDM-T/-TD) are also used as high-pressure discharge lamps. They are operated with electronic control gear. The power supply units are included and are prewired with primary and secondary wiring.



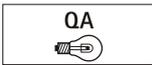
Lamp version	OD Ø (mm)	Built-in depth (mm)										
		120	135	140	145	170	180	190	200	215	220	230
1x CDM-TC 20W	125			●								
1x CDM-TC 35W				●								
1x QA 70W	165									●		
1x HME 50W										●		
1x HME 80W										●		
1x CDM-T 35W								●				
1x CDM-T 70W								●				
1x QA 105W	190											●
1x QT32 150W												●
1x HME 50W												●
1x HME 80W												●
1x HME 125W												●
1x CDM-T 35W		●	●				●		●			
1x CDM-T 70W		●	●				●		●			
1x CDM-T 150W			●				●		●			
1x CDM-TD 70W					●							
1x CDM-TD 150W					●							
1x SDW-T 50W							●					●
1x SDW-T 100W							●					●
1x CDM-T 35W	220										●	
1x CDM-T 70W											●	
1x CDM-T 150W											●	
1x CDM-TD 70W						●						
1x CDM-TD 150W						●						



## SOBRA

SOBRA recessed downlight equipped for general service lamps and high-pressure discharge lamps with E27 lampholder. Vertical burning position. Aluminium reflector, polished and piece silver anodized.

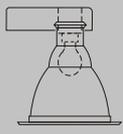
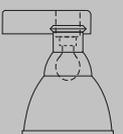








							Version										
							Reflector 13° Spot	Reflector 25° Medium	Reflector 40° Flood	Reflector 70° Wide flood	Reflector, high polish silver	Reflector, high polish gold	Reflector, matt silver	Reflector, matt gold			
							Article No.	ECG	Lamp version								
				4208.060	.00	1 x QA	70W			●	●	○					
				4208.050	.01	1 x HME	50W			●	●	○					
				4208.080	.01	1 x HME	80W			●	●	○					
				4209.060	.00	1 x QA	105W			●	●	○					
				4209.150	.00	1 x QT32	150W			●	●	○					
				4209.050	.01	1 x HME	50W			●	●	○					
				4209.080	.01	1 x HME	80W			●	●	○					
				4209.125	.01	1 x HME	125W			●	●	○					



- ▶ **Control gear order code**
- .00 without control gear
- .01 low loss gear
- .02 electronic control gear

- ▶ **To specify the choice of reflector, please add:**
- S = 17° Spot
- M = 25° Medium
- F = 50° Flood
- W = 60° Wide flood

**SOBRA**

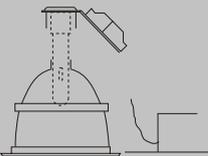
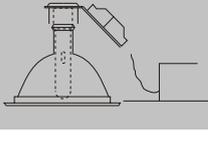
SOBRA recessed downlight equipped for SDW-T high-pressure discharge lamps. Vertical burning position. Protection pane possible. Luminaire with electronic control gear, non-regulable, in separate housing, connected via St18 Wieland plug-in system.

**Reflector Technology**

2-part reflector system. Reflector made of 99.98% aluminium, polished and piece anodized. Cone removable tool-free. High polish silver surface. Other reflector surface finishes are also available.

▶ See chart



							Version							
							Reflector 17° Spot	Reflector 25° Medium	Reflector 50° Flood	Reflector 60° Wide flood	Reflector, high polish silver	Reflector, high polish gold	Reflector, matt silver	Reflector, matt gold
		Article No.	ECG	Lamp version	50W	100W								
				4240.050	.01	1 x SDW-T	50W	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4240.100	.01	1 x SDW-T	100W	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
				4242.050	.01	1 x SDW-T	50W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
				4242.100	.01	1 x SDW-T	100W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>



## **SOBRA**

SOBRA recessed downlight equipped for CDM-T high-pressure discharge lamps. Horizontal burning position. Luminaire with electronic control gear, non-regulable, in separate housing.

### **Reflector Technology**

2-part reflector system. Reflector made of 99.98% aluminium, polished and piece anodized. Cone removable tool-free. High polish silver surface. Other reflector surface finishes are also available.

▶ See chart

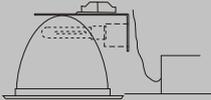
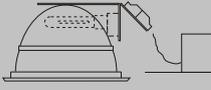
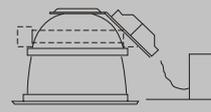
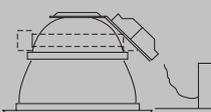


► **Control gear order code**

- .00 without control gear
- .01 low loss gear
- .02 electronic control gear

► **To specify the choice of reflector, please add:**

- S = 17° Spot
- M = 25° Medium
- F = 50° Flood
- W = 60° Wide flood

							Version								
							Reflector 13° Spot	Reflector 30° Medium	Reflector 40° Flood	Reflector 60° Wide flood	Reflector, high polish silver	Reflector, high polish gold	Reflector, matt silver	Reflector, matt gold	
							Article No.	ECG	Lamp version						
				4244.035	.02	1 x CDM-T 35W			●			●	○		
				4244.070	.02	1 x CDM-T 70W			●		●	○			
				4244.150	.02	1 x CDM-T 150W			●		●	○			
				4246.035	.02	1 x CDM-T 35W			●	●	○				
				4246.070	.02	1 x CDM-T 70W			●		●	○			
				4248.070	.02	1 x CDM-TD 70W		●	○		●	○	○	○	
				4248.150	.02	1 x CDM-TD 150W			●	○	●	○	○	○	○
				4249.070	.02	1 x CDM-TD 70W		●	○		●	○	○	○	
				4249.150	.02	1 x CDM-TD 150W			●	○	●	○	○	○	○

## **SOBRA**

SOBRA recessed downlight equipped for CDM-T high-pressure discharge lamps. Vertical burning position. Security glass fixed in the cone. Luminaire with electronic control gear, non-regulable, in separate housing.

## **Reflector Technology**

2-part reflector system. Reflector made of 99.98% aluminium, polished and piece anodized. Cone removable tool-free. High polish silver surface. Other reflector surface finishes are also available.

▶ See chart



► **Control gear order code**

- .00 without control gear
- .01 low loss gear
- .02 electronic control gear

► **To specify the choice of reflector, please add:**

- S = 17° Spot
- M = 25° Medium
- F = 50° Flood
- W = 60° Wide flood

			<b>CDM-T</b> 	35W G12	70W G12	150W G12
			<b>CDM-TC</b> 	20W G8,5	35W G8,5	

							Version												
							Reflector 13° Spot	Reflector 30° Medium	Reflector 50° Flood	Reflector 60° Wide flood	Cone, high polish silver	Cone, high polish gold	Cone, frosted	Cone, faceted					
							Article No.	ECG	Lamp version	20W	35W	70W	150W						
				4232.020	.02	1 x CDM-TC	20W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
				4232.035	.02	1 x CDM-TC	35W	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4235.035	.02	1 x CDM-T	35W	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
				4235.070	.02	1 x CDM-T	70W	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4234.035	.02	1 x CDM-T	35W	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
				4234.070	.02	1 x CDM-T	70W	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
				4234.150	.02	1 x CDM-T	150W	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4238.035	.02	1 x CDM-T	35W	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
				4238.070	.02	1 x CDM-T	70W	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
				4238.150	.02	1 x CDM-T	150W	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4245.035	.02	1 x CDM-T	35W	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
				4245.070	.02	1 x CDM-T	70W	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				4245.150	.02	1 x CDM-T	150W	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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